



best complexity search algorithm training set

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One-Dimensional Index for Nearest Neighbor Search \*

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 through the **database** 15]. The computational **complexity** for a  
 nearest neighbor ... in a **range query**. With **data** spread along only  
 one **dimension**, .... From the **best** solution found by the genetic  
**algorithm**, we construct the Su- ... eigen vectors of the **training set**  
 are calculated, and each **training** image is then ...  
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k-nearest neighbor algorithm - Wikipedia, the free encyclopedia

This can be thought of as the **training set** for the algorithm, ...  
 efficient manner so that the computational **complexity** is a function of  
 the boundary **complexity** ... The **best** choice of k depends upon the  
**data**; generally, larger values of k reduce ... Using an appropriate  
 nearest neighbor **search algorithm** makes k-NN ...

[en.wikipedia.org/wiki/K-nearest\\_neighbor\\_algorithm](http://en.wikipedia.org/wiki/K-nearest_neighbor_algorithm) -

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 On **dimension** 1, this **training** sample covers the **range** [x-R, x+R],  
 so we create the first group of ... **dimensional query** sample, it will  
 have N quantized values , one in each **dimension**. .... unit of  
**Complexity** is defined as one **set** of computations ... nearest class  
**search**. This **algorithm** pre-learns the **data** space ...  
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 and classification in high **dimensional data**. In this framework, the  
**database** ... **query**. The aggregation rule picks the **database**  
 element that has the **best** median rank. .... only in nearest-neighbor-  
 based classification (and not **training**), we ... the (top) point in the  
**data set** returned by the **algorithm** (possibly ...  
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vectors to retrieve images from a large aerial photo **data**- ... **best** matches to the **query** image. Use of the thesaurus cuts ... **search complexity** is still high. Promising results suggest .... use in **training**, 400 feature vectors from the **database** of ... ity of the **algorithm** in [6] forced this small **training set**). ...  
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to come in the future – a common approach in many **database** ... B. **Query Mesh Search** Space. Given a **query** and **training data**, we now study how many .... The computation of a single **best** route for **set of data** is viewed as a “black box” in QM framework. ... and E is the time **complexity** of the **algorithm** used to find ...  
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naive algorithm to answer **range queries** is to perform an exhaustive search on ... Let  $(X, d)$  be a metric space and  $U \subseteq X$  the **set** of objects or **database**, with  $|U| = n$ . ... the algorithm. The total **complexity** of the **search algorithm** is the sum of the internal and .... It requires a **training data set**  $Q$  of  $m$  objects, ...  
[citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.93.6085&rep=rep1&format=pdf](http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.93.6085&rep=rep1&format=pdf)

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Effective **search algorithms** are important to overcome ... original descriptor, with a reduction to the **range** of 20 to ... The **complexity** of this assignment is dependent on the ... vectors for the PCA from all features in our **training set**. The .... closest to the features in the **query** image. The **dimension**- ...  
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to a given **query** in the **data set**  $\Omega$  can easily become .... **Algorithm 1** Rotation invariant **best**-match **search**. Preprocessing: ... rotations and store them in a sorted **n-dimensional** ... force **search**. This linear increase in space **complexity** .... point from the **training** subset that has the **best** prun- ...  
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strate via experiments on real high **dimensional data sets** ... The similarity **search** problem is central in a wide **range** of ... To the **best** of our knowledge, there is no **algorithm** in ..... element subset of the **data set** as our **query training set**, ... When we compare the I/O time **complexity** for fixed ...

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